

## ENGINEERING MANAGEMENT SUPPORT INC.

7220 West Jefferson Avenue, Suite 406  
Lakewood, CO 80235

Telephone (303) 940-3426  
Telecopier (303) 940-3422

December 10, 2013

VIA: Electronic Mail

U.S. Environmental Protection Agency  
Region VII SUPR/MOKS  
11201 Renner Boulevard  
Lenexa, KS 66219

**ATTENTION:** Mr. Dan Gravatt

**SUBJECT: Monthly Status Report – November 2013**  
**West Lake Landfill Operable Unit 1, Bridgeton, Missouri**

Dear Mr. Gravatt,

On behalf of Cotter Corporation (N.S.L.), Bridgeton Landfill, LLC., Rock Road Industries, Inc., and the United States Department of Energy (the "Respondents"), Engineering Management Support Inc. (EMSI) submits the attached status report for the month of November 2013 as required by paragraph 56 of the West Lake Landfill Administrative Order on Consent, Docket No. VII-93-F-005. If you have any questions or desire additional information related to this status report or any other aspect of the project, please do not hesitate to contact me.

Sincerely,  
**ENGINEERING MANAGEMENT SUPPORT, Inc.**

A handwritten signature in black ink, appearing to read 'P. Rosasco', with a stylized flourish extending from the end.

Paul V. Rosasco, P.E.

**Distribution:**

Shawn Muenks - Missouri Dept of Natural Resources  
Victoria Warren – Republic Services, Inc.  
Ward Herst - Herst & Associates, Inc.  
Jessie Merrigan – Lathrop & Gage  
Bill Beck – Lathrop & Gage  
Charlotte Neitzel – Bryan Cave HRO  
Steven Miller - U. S. Department of Energy  
Christina Richmond – U.S. Department of Justice  
Dan Feezor – Feezor Engineering  
Mike Bollenbacher – Auxier & Associates

**Monthly Status Report – November 2013**  
**West Lake Landfill Operable Unit 1**  
**Bridgeton, Missouri**

This status report has been prepared by Engineering Management Support Inc. (EMSI) on behalf of Cotter Corporation (N.S.L.), Bridgeton Landfill, LLC (formerly known as Laidlaw Waste Systems [Bridgeton] Inc.), Rock Road Industries, Inc., and the United States Department of Energy (the “Respondents”) for Operable Unit - 1 (OU-1) at the West Lake Landfill as required by paragraph 56 of the West Lake Landfill Administrative Order on Consent, Docket No. VII-93-F-005.

**1. Work Performed During November 2013**

Project Planning

Work plans for evaluation of potential impacts from a possible Subsurface Smoldering Event in Area 1 or 2 and for evaluation of potential impacts from a possible tornado impact to Area 1 or 2 were submitted to EPA and MDNR on July 24, 2013. EPA approved these work plans on July 30, 2013.

EPA comments on the various work plans prepared for the additional Supplemental Feasibility Study evaluations were received on August 16, 2013. A meeting was held with EPA and MDNR on September 24, 2013 to discuss comments on the work plans for the additional SFS evaluations. Revisions to the work plans for evaluations of alternative Area 2 depths and volumes, apatite treatment technologies and additional discount rate were prepared and submitted to EPA and MDNR on October 31, 2013. Work was performed relative to evaluation of alternative criteria for development of a partial excavation alternative during November.

A draft Remedial Design Work Plan was submitted to EPA in November 2008. In accordance with direction from EPA, all work on design of the ROD-selected remedy has been put on hold.

Fieldwork - Sample Collection/Analysis

The groundwater samples collected during the October 2013 groundwater sampling event were subjected to laboratory analyses.

The Phase 1 Gamma Cone Penetrometer (GCPT) investigation was completed during November 2013.

Report Preparation

The monthly progress report for October 2013 was prepared and submitted to EPA and MDNR on November 8, 2013.

Work was performed toward preparation of a report for the July 2013 groundwater monitoring event.

#### Project Management

None.

#### Meetings

None.

#### Correspondence

None.

### **2. Analytical Data Collected During This Reporting Period**

A portion of the results from the October 2013 groundwater monitoring event were received during this reporting period. Due to the size of the files, these analytical laboratory reports are being transmitted separately using file transfer software.

### **3. Work Scheduled to be Performed during December 2013 and January 2014**

Laboratory analyses of the fourth and last round of additional groundwater sampling is expected to be completed in December 2013. Upon receipt, the laboratory analytical results will be subjected to data validation.

The data report for the July 2013 additional groundwater monitoring event will be completed. A data report for the October 2013 additional groundwater monitoring event will be prepared.

The three remaining Work Plans for the additional SFS evaluations (Partial Excavation, Alternative Landfill Cover Design, and Fate and Transport Evaluations) will be updated as necessary to address EPA and MDNR comments and the discussions at the September 24, 2013 meeting. The Respondents are still awaiting guidance from EPA regarding the specific objectives for the fate and transport evaluations.

A work plan for GCPT investigation Phase IB will be prepared. Responses to comments provided by EPA on the Draft Phase II work plan will also be prepared. Subject to EPA

approval of the Phase IB work plan, field work for Phase IB of the GCPT investigation will be performed in January, 2014.

#### **4. Problems Encountered**

None.